Apple	7		``````````````````````````````````````		~~~		RD 02038 Not yet assigned				
Page Date July 29, 2003 Crosp Art Date Not yet assigned	192	INFU			•		Applicant(s) FREDERICK HICK	KS .			
Substitute Sub	170		1		<i>y</i> ,				Group Art Unit		
PART DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE PART	' W	<i></i>		<u>.</u>	- <u></u>	·			_	t assigner	d
MI						U.S. PAT	ENT DOCUMENTS				7.5
ML A. 6235936 B1 05/22/61 BUCKWALD, ET AL. 564 386 BL 6. 6323366 B1 11/27/01 WOLFE ET AL. 564 269 ML c. 6395916 B1 05/28/02 BUCHWALD ET AL. 556 413 ML D 6395939 B1 05/28/02 MARCOUX ET AL. 568 635 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS REF DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TREEDING VIEW NO. 1 No	•	REF	DOCUME	NT NUMBER	DATE		NAME	CLASS	SUBCLASS	•	
ML D. 6395939 B1 05/28/02 MARCOUX ET AL. 556 413 ML D. 6395939 B1 05/28/02 MARCOUX ET AL. 568 635 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 MARCOUX ET AL. 564 386 MARCO	ML	A.	6235936 B1		05/22/01	BUCK	BUCKWALD, ET AL.		386		,
ML B. 6395939 B1 05/28/02 MARCOUX ET AL. 568 635 ML E 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS CLASS SUBCLASS Translation VIS NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.) ML E Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007	ML	В.	6323366 B1		11/27/01	WOLF	WOLFE ET AL.		269		·-
ML E. 6465693 B2 10/15/02 BUCHWALD ET AL. 564 386 FOREIGN PATENT DOCUMENTS REF DOCUMENT NUMBER DATE COUNTRY CLASS SURCLASS VINCLASS NO OTHER DOCUMENTS (Including Author, Title, Date, Periment Pages, Etc.) ML Slapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Fgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pages, 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Fgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007	ML	c.	6395916 B1		05/28/02	BUCHWALD ET AL.		556	413		
FOREIGN PATENT DOCUMENTS REF DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES NO	ML	D.	6395939 B1		05/28/02	MARC	MARCOUX ET AL.		635		
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	ML	Е.	6465693 B2	:	10/15/02	BUCH	BUCHWALD ET AL.		386		
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and							•				
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
Translation VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and					· .		• .				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			•		· · ·	FOREIG	N PATENT DOCUMENTS	S			· · · · · · · · · · · · · · · · · · ·
OTHER DOCUMENTS (Including Author, Title, Date, Perlinent Pages, Etc.) MI Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		REF	DOCUMEN	NT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS		
ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-1729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-1729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-1729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and							-				
ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-1729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
ML Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-1729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		·									
Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles," J. Am Chem. Soc., 123, Pgs.: 7727-7729 (2001). Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			-			OTHER	DOCUMENTS (Includir	ng Author, Title, D)ate, Pertinent Pa	ges, Etc.)	
Klapars, Artis et al., "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides," J. Am. Chem. Soc., 124, Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	-		Klapars.	Artis et al., "A	General and Ef	ficient Cop					ion of
ML G. Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	ML		A CONTRACTOR OF THE CONTRACTOR	Heterocycles," J	J. Am Chem. So	oc., 123, Pg	s.: 7727-7729 (2001).	·			
ML G. Pgs.: 77421-7428, (2002). EXAMINER /Marialouisa Lao/ DATE CONSIDERED 02/26/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			Klapars	Artic et al. "A	Coneral and Ef	fisient Cop	-ar Catalyst for the Am	idation of Arv	Unlides W. I. Ar	Chem. (San 124.
/Marialouisa Lao/ EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	ML		Pgs.; 774	21-7428, (2002).	Jeneral and	ittien. Cop.	per Catalyst to the		Janucs, G.	i. Chem.	100., 127,
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include conv of this form with next communication to applicant.	EXAMINEI	R	-	/Marialouisa	Lao/		DATE CONSIDERED	02/26/2007	** ** **		
The state of the s	EXAMINEI not consider	R: Initi	al if citation cons	idered, whether or	not citation is in	onforman	ce with MPEP Section 609	; Draw line throu	gh citation if not	in conform	ance and

Docket Number (Optional)

Application Number

Form PTO-A820 (also form PTO-1449) P09A/REV04

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

7/24/200	3	•	Docket Number (Optional) RD 02038	Application Number Not Yet Assigned		
かとめた INF		TION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant(s) Frederick Hicks			
1 me			Filing Date July 29, 2003	Group Art Unit Not Yet Assigned		
*EXAMINER INITIAL	•	OTHER DOCUMENTS (Including Autho	r, Title, Date, Pertinent Pages, Etc.)			
ML	Н.	Old, David W. et al., "Efficient Palladium-Cat (2000).	alyzed N-Arylation of Indoles, Org. Le	tt., Vol. 2, No. 10, Pgs.: 1403 - 1406		
		<u> </u>				
 		· -		<u></u>		
·						
		·				
•						
				•		
			,	· · · · · · · · · · · · · · · · · · ·		
EXAMINER		/Marialouisa Lao/	DATE CONSIDERED 02/2	6/2007		
		citation considered, whether or not citation is in confe				